

Abstract

A detector circuit is to be used for measuring current by means of substantially  
5 identically wound ring core transformers, in which magnetomotive forces are induced  
by a main current. The magnetomotive forces are counteracted by magnetomotive  
forces induced by a compensating current. Two of the ring core transformers (2, 3) are  
magnetized in antiphase by means of a modulation signal. The detector circuit includes  
optionally a synchronous rectifier for providing an adjusting signal for the  
10 compensating current. According to the invention means are provided for compensating  
for possible differences between the two ring core transformers for the modulation  
signal. These means include a common winding surrounding the two ring cores (2, 3),  
said common winding detecting a possible error signal used in a negative feedback loop  
which automatically seeks to establish an equilibrium.